

**FIG. 1**  
PRIOR ART

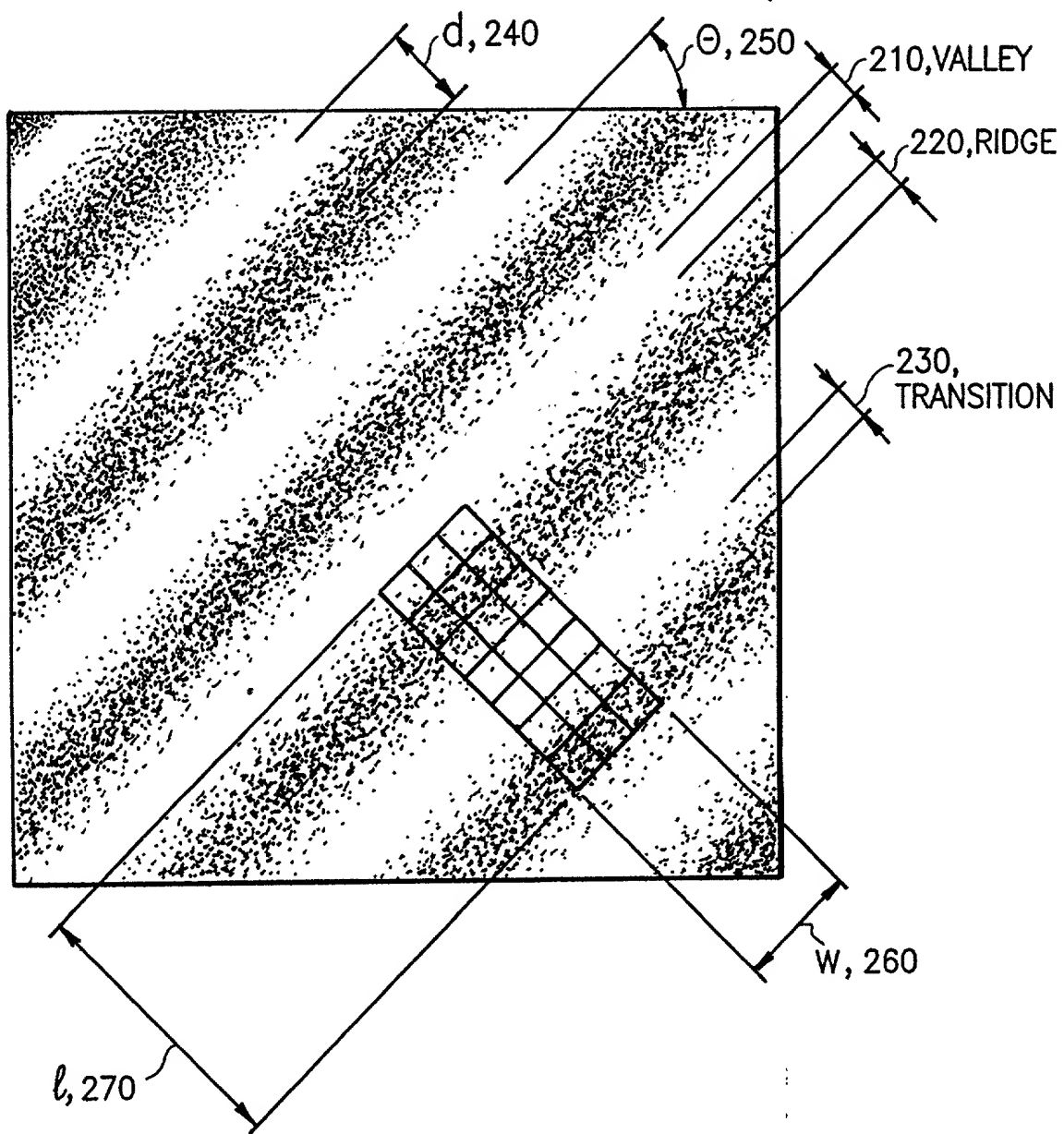
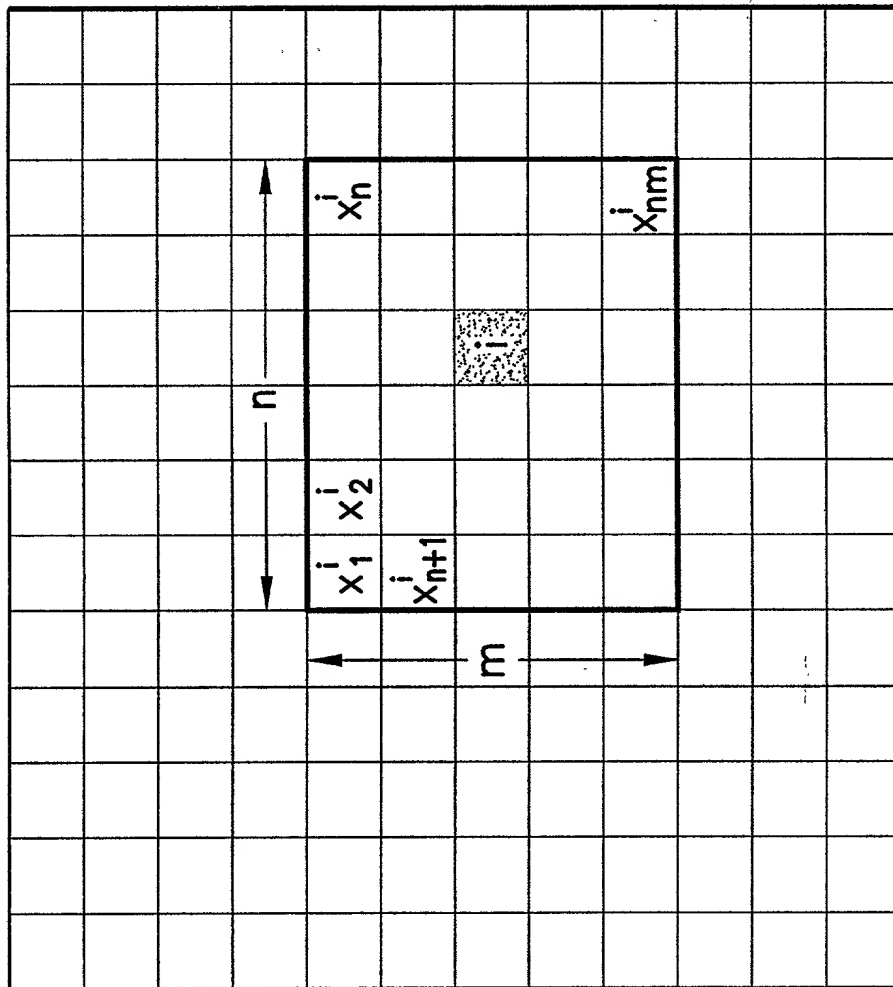
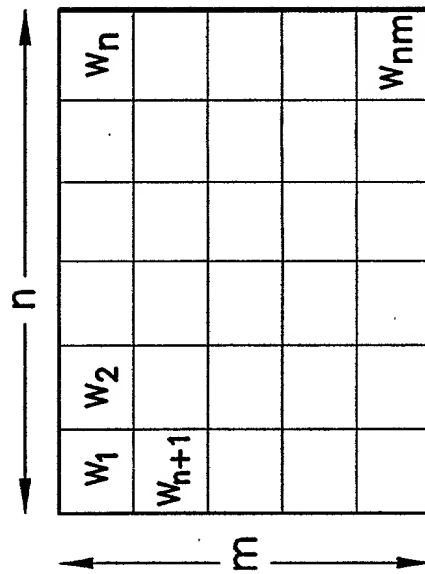


FIG. 2

310



320



FINGERPRINT SUBREGION

FILTER WEIGHTS

FIG.3

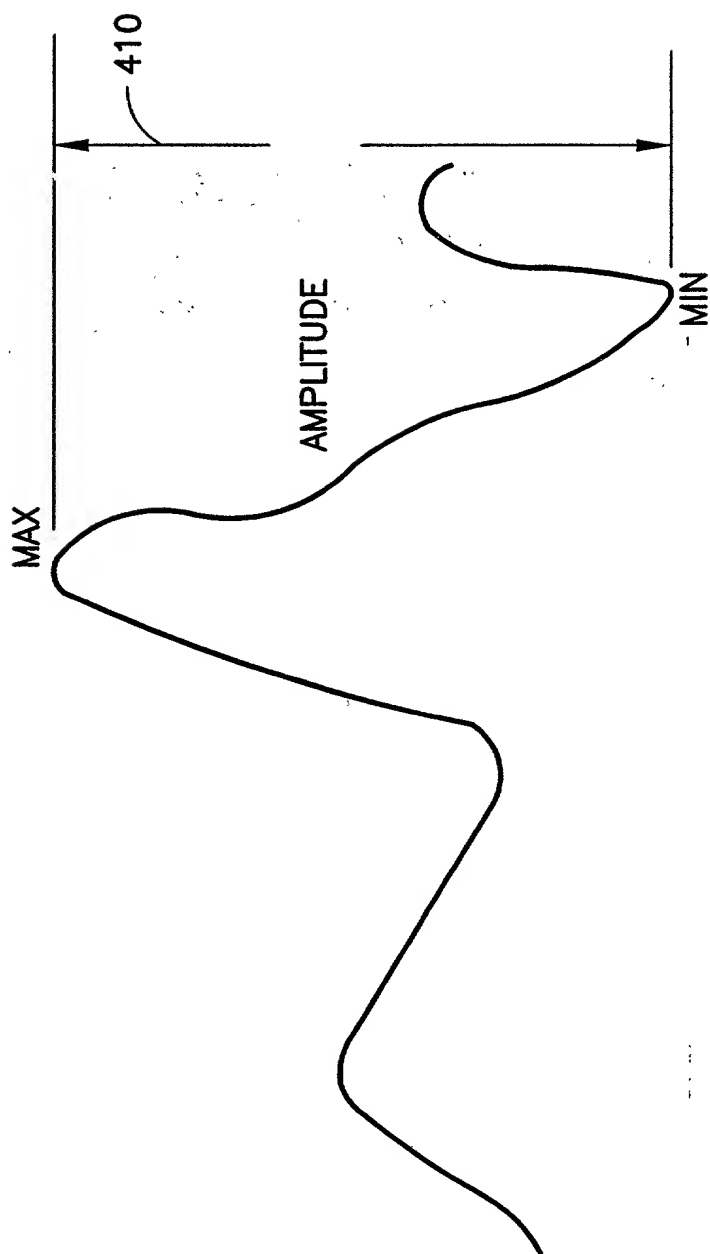


FIG.4



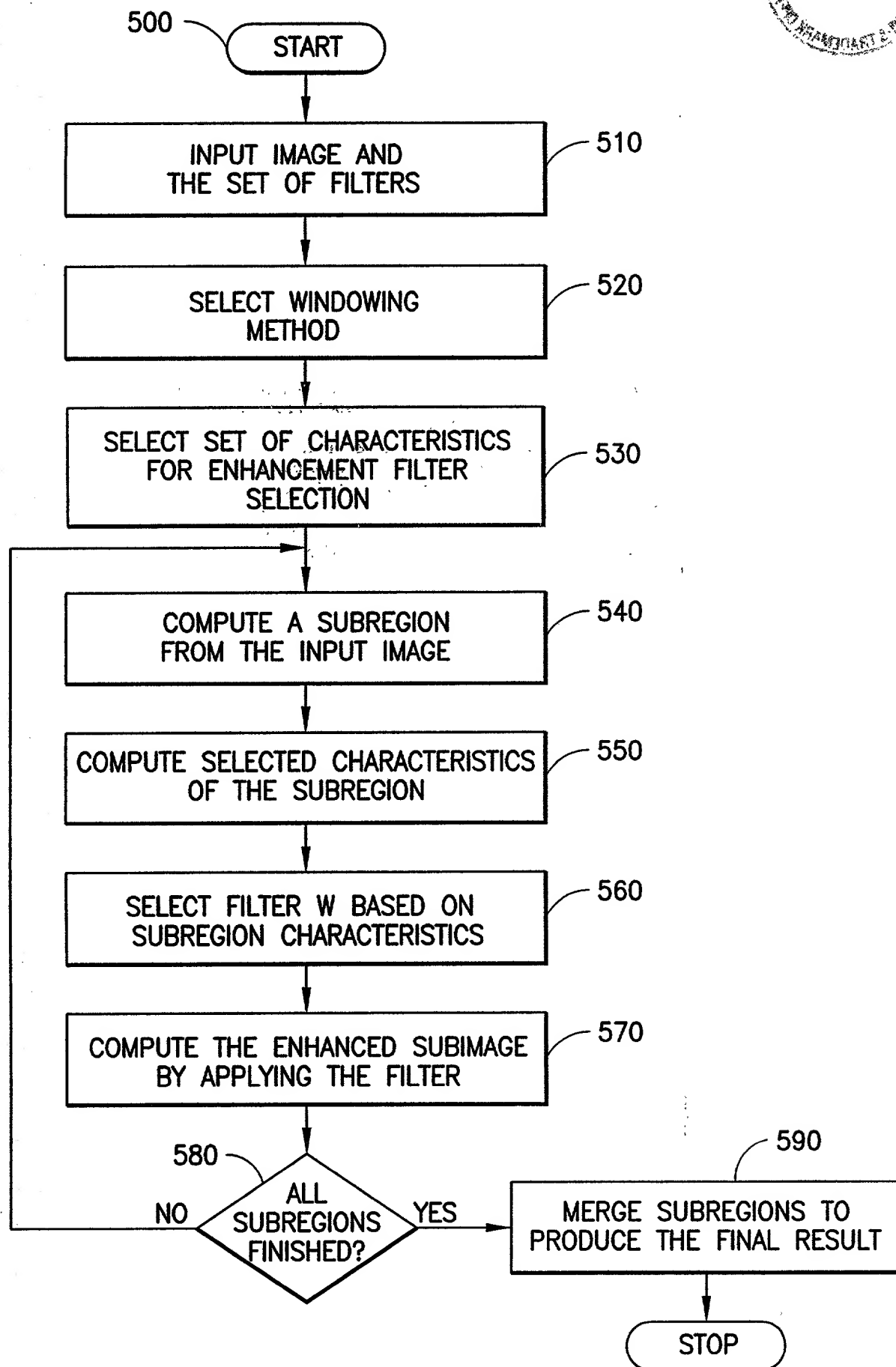


FIG.5

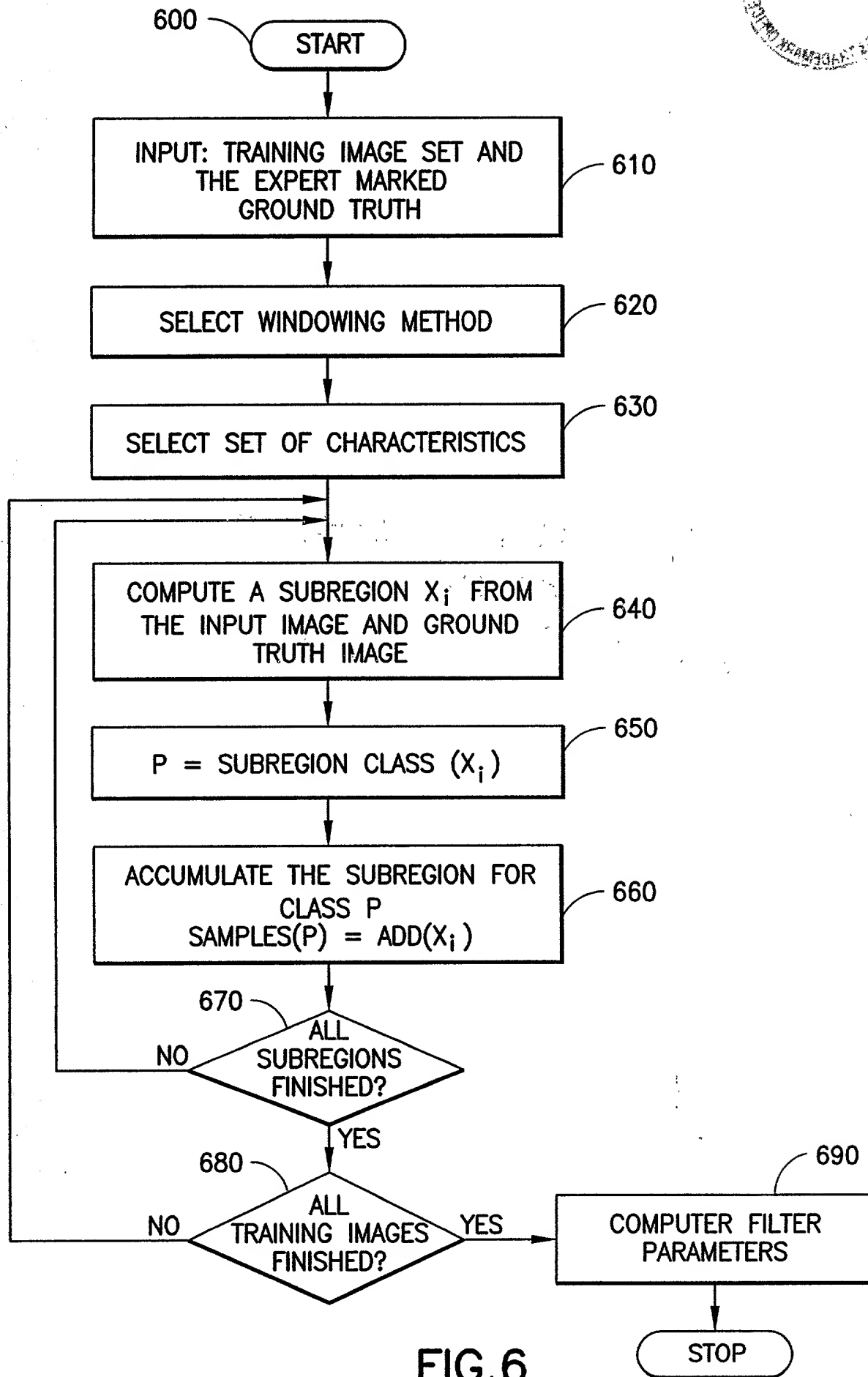


FIG.6

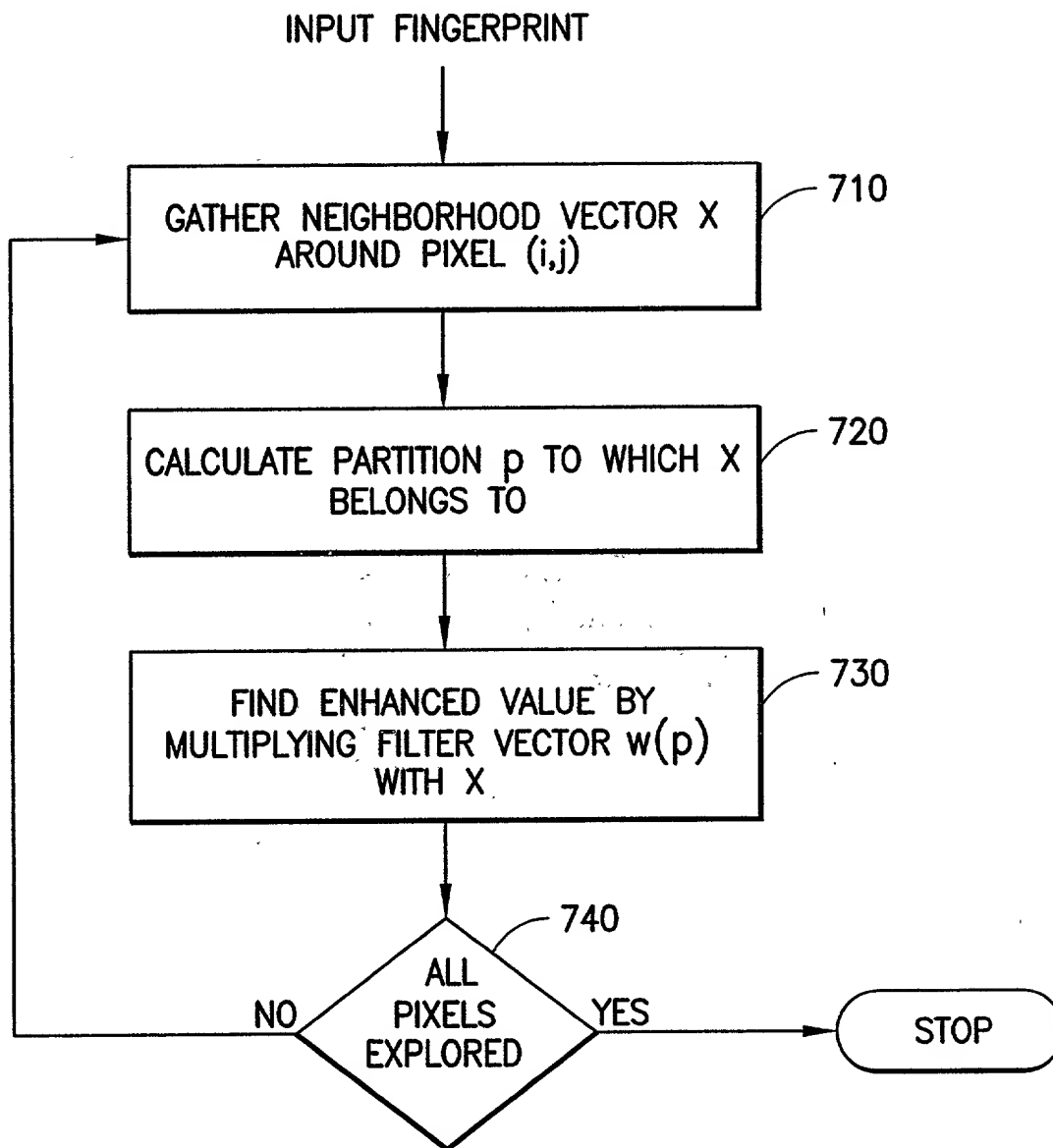


FIG.7

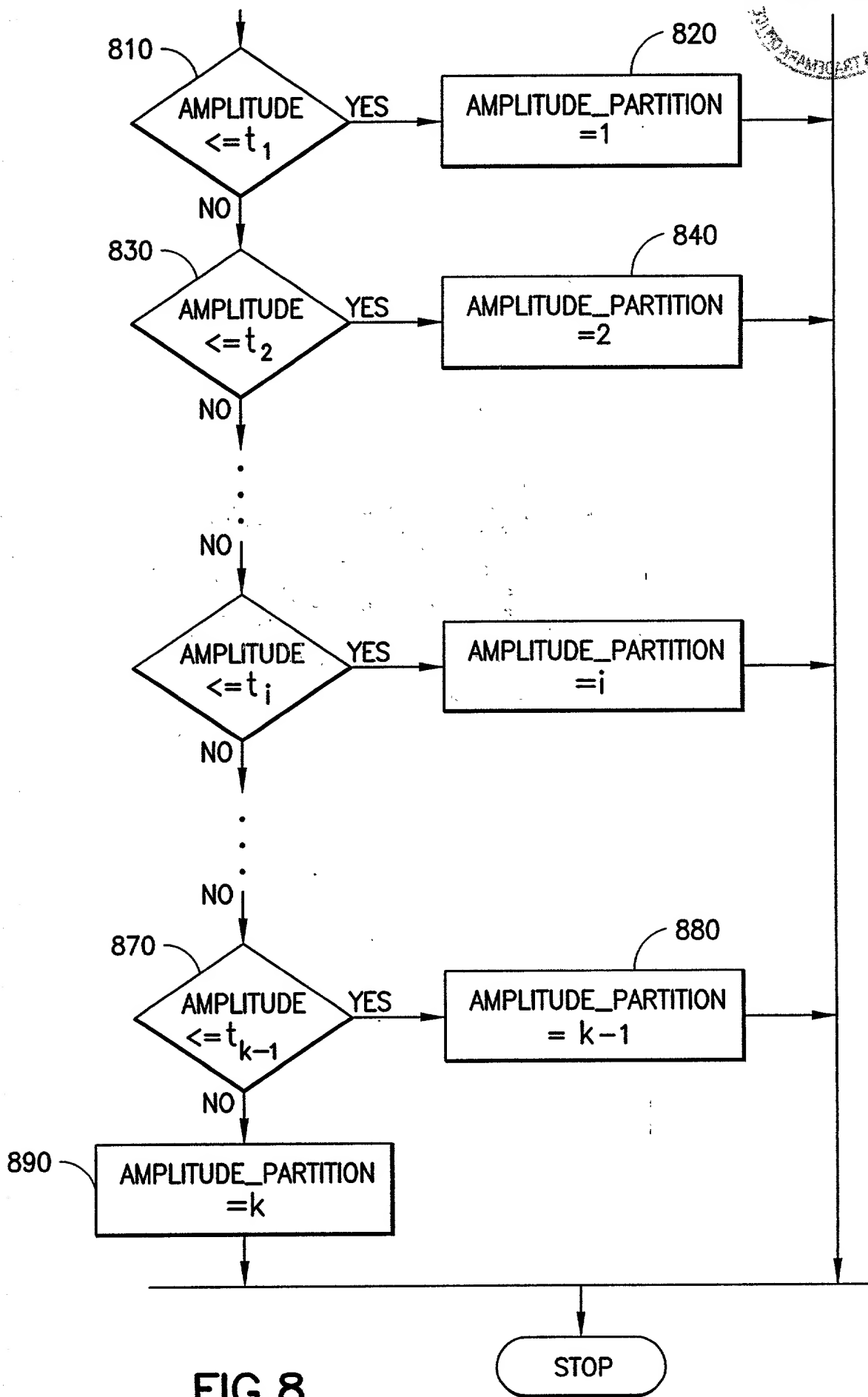
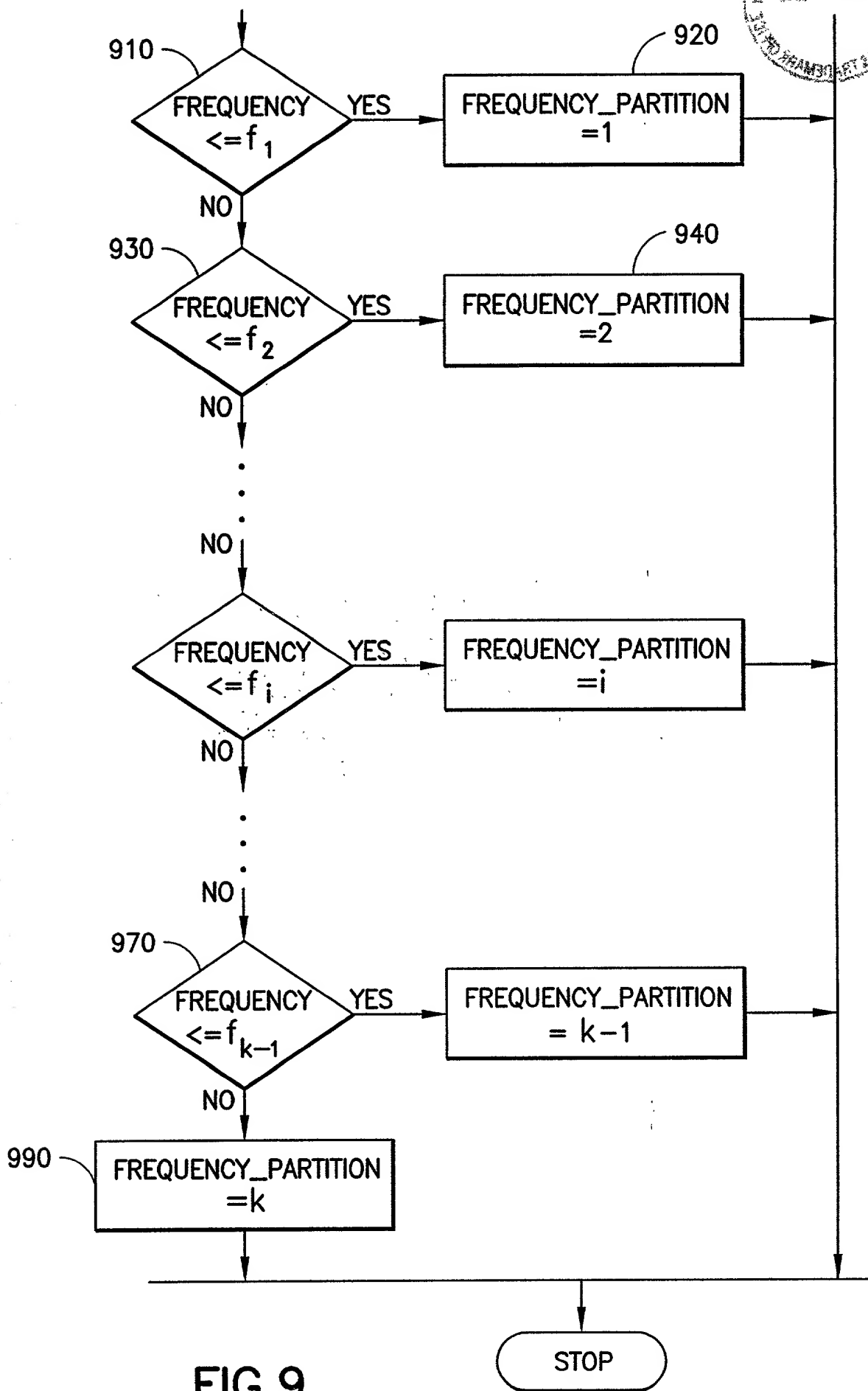


FIG. 8





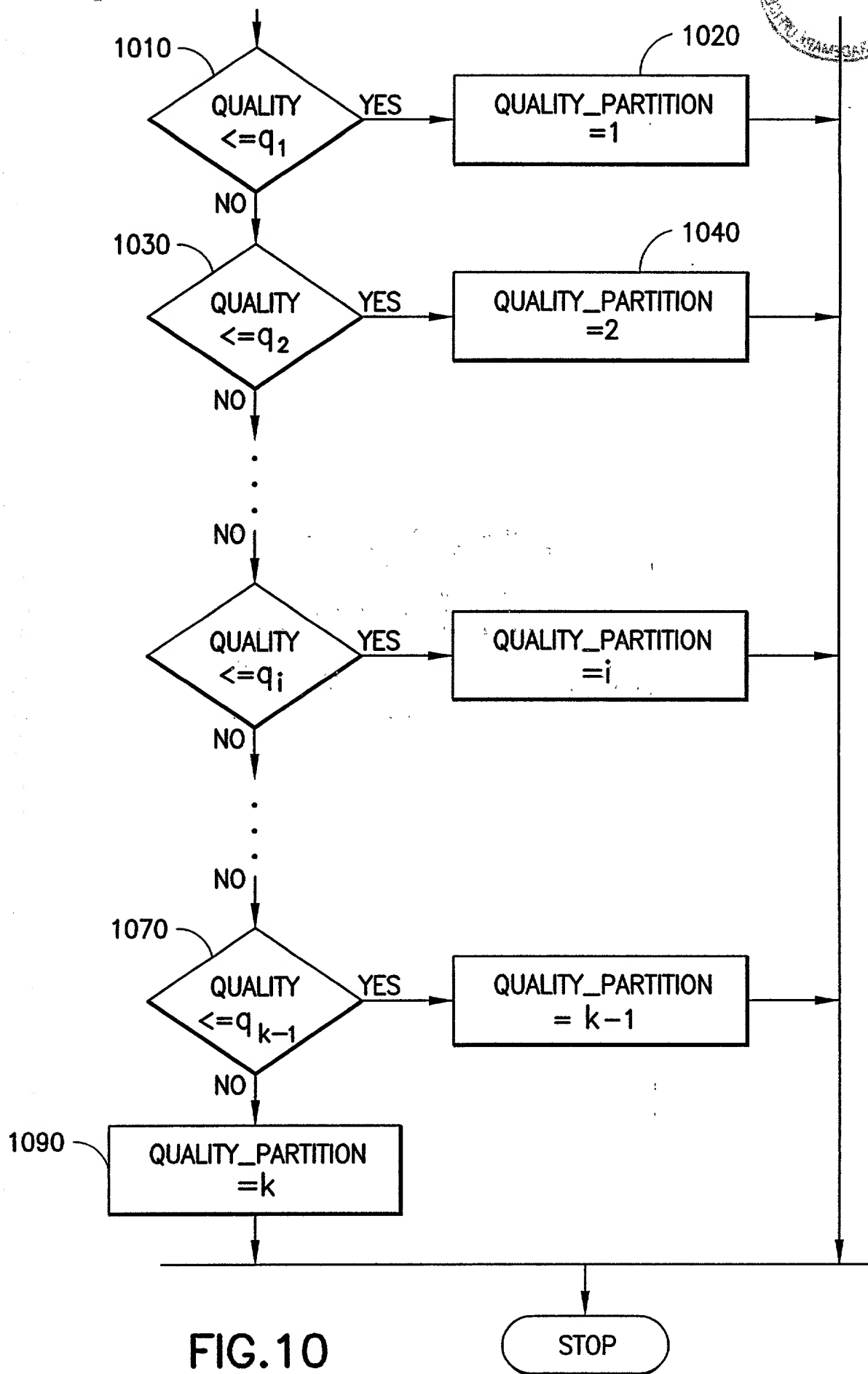


FIG.10

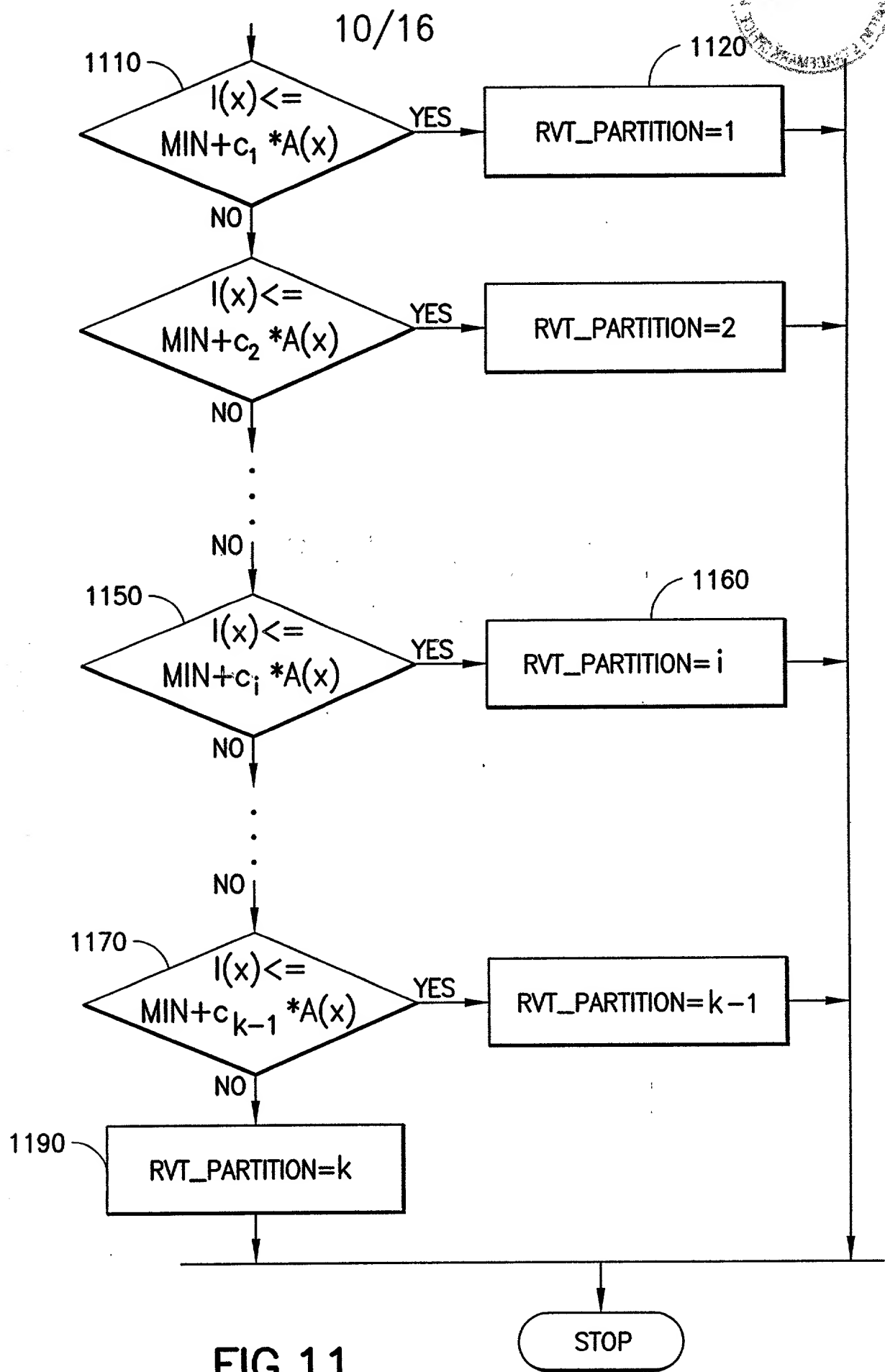


FIG.11

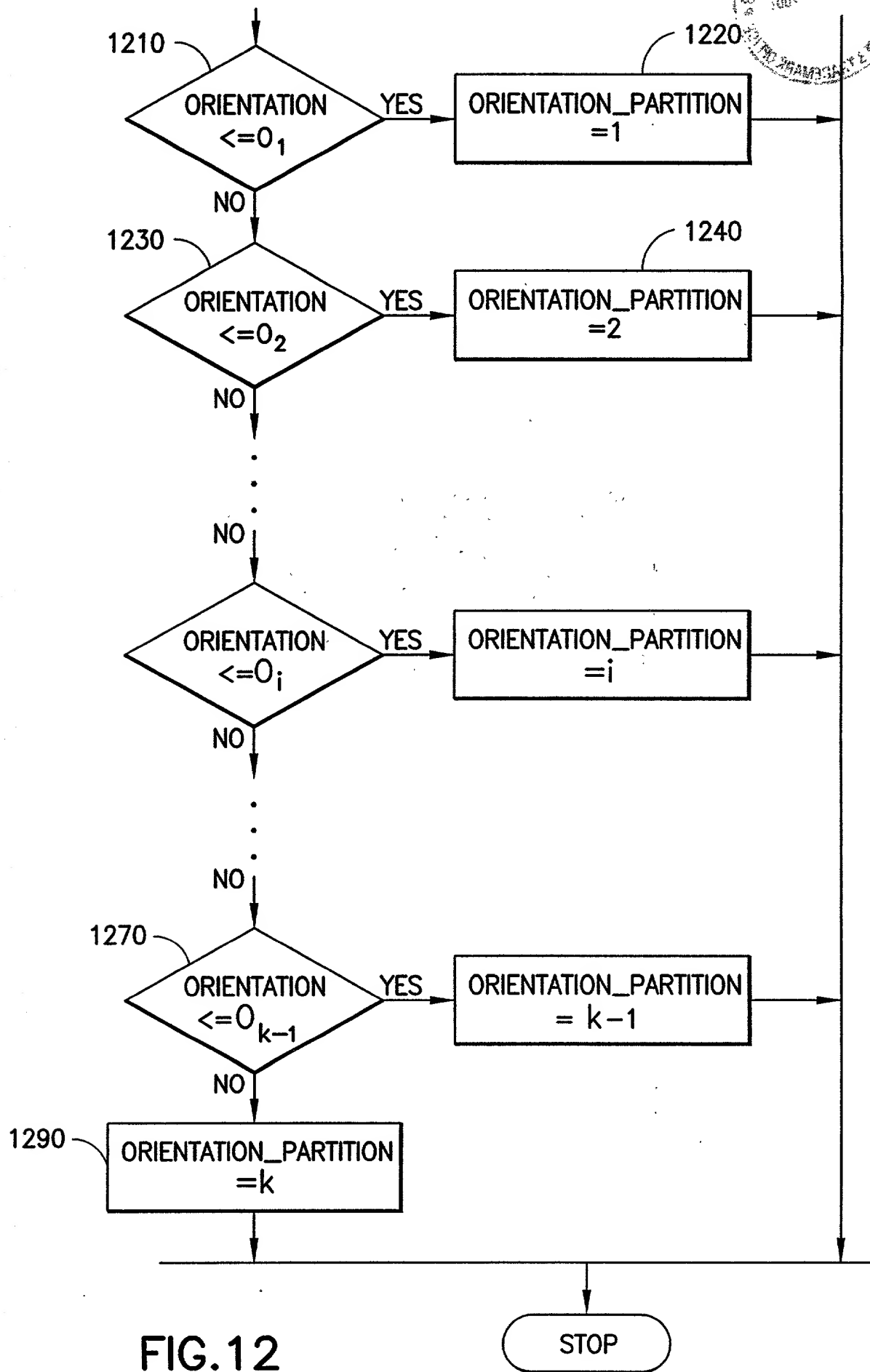


FIG. 12

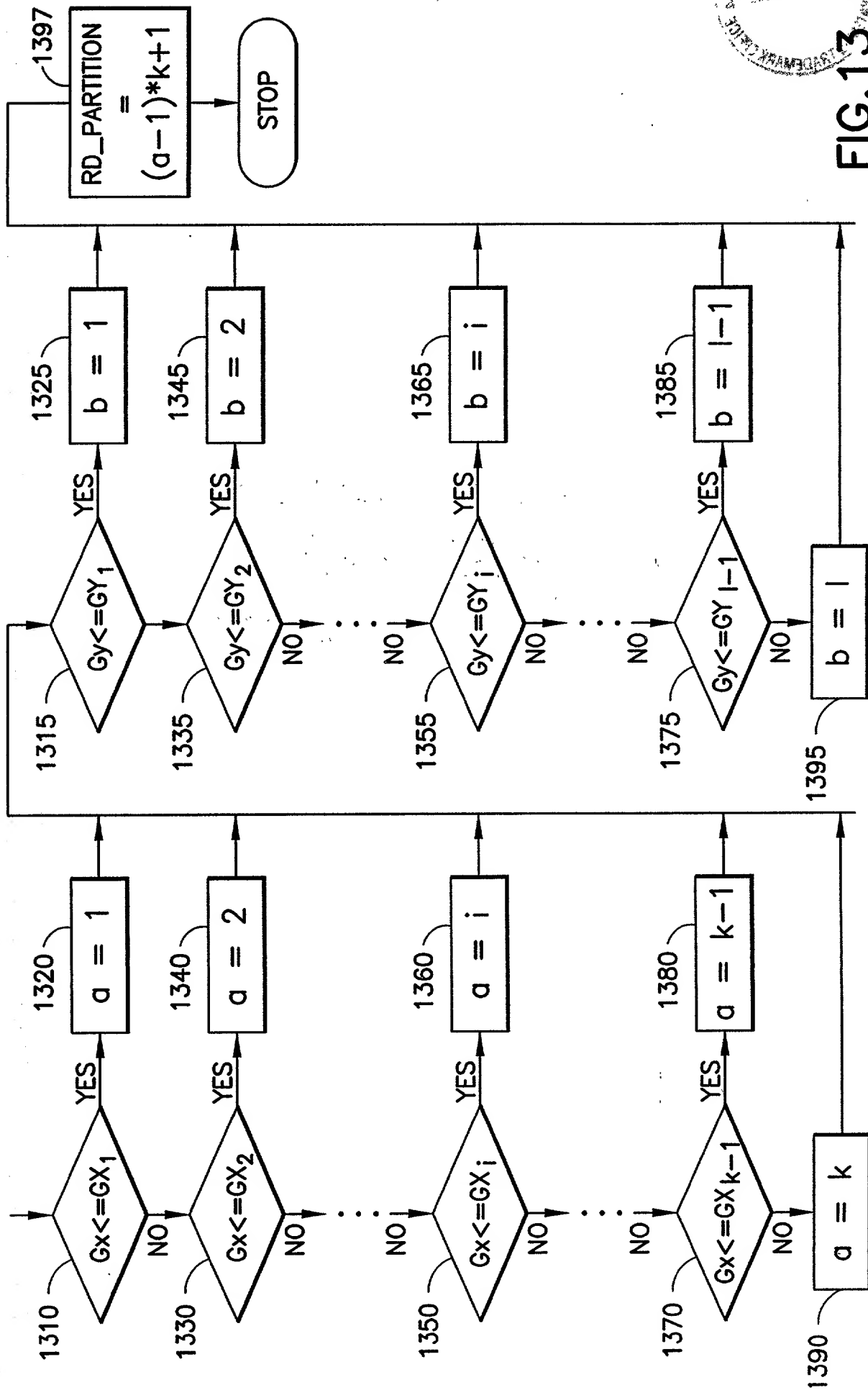


FIG. 13

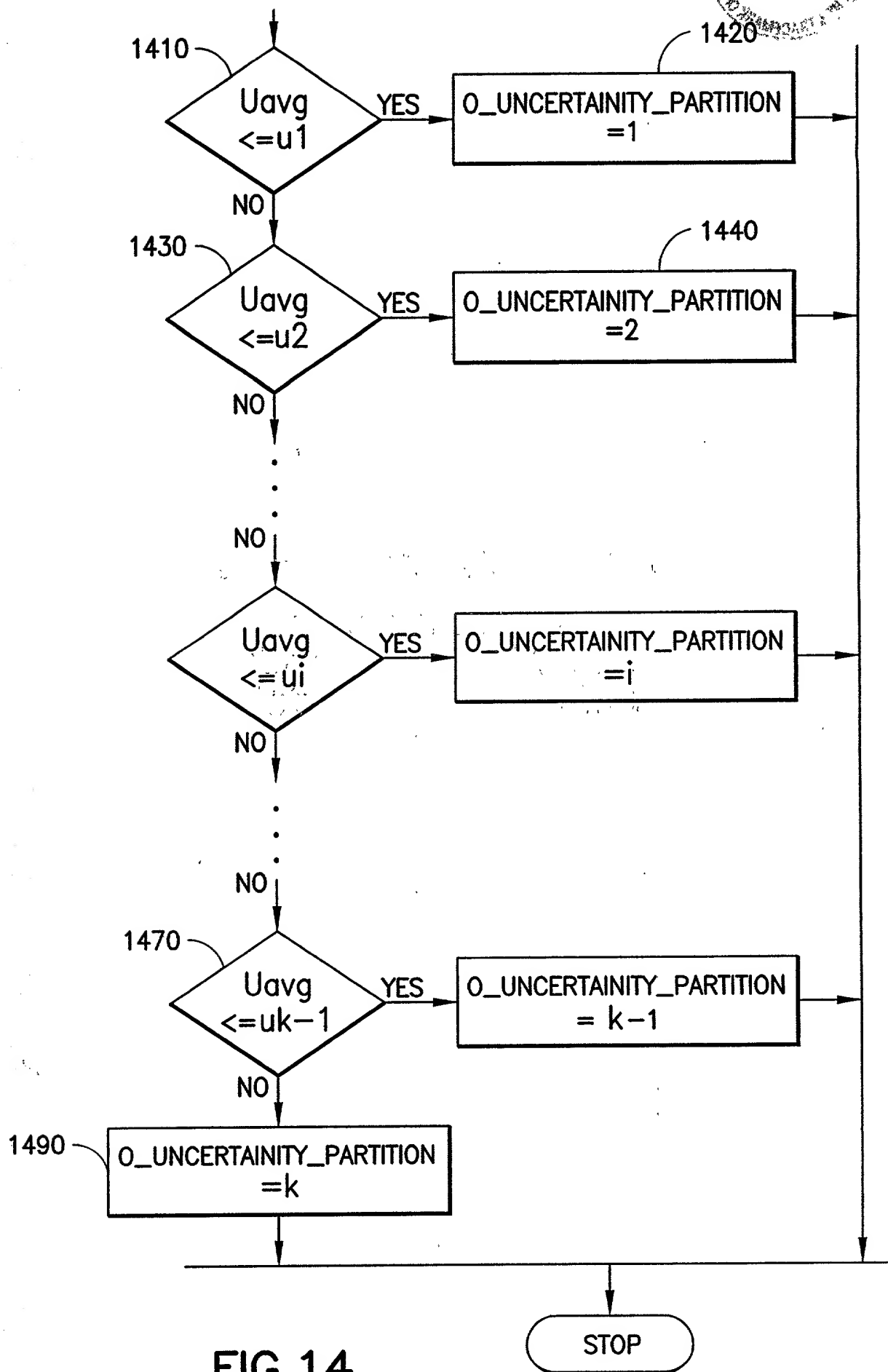


FIG. 14

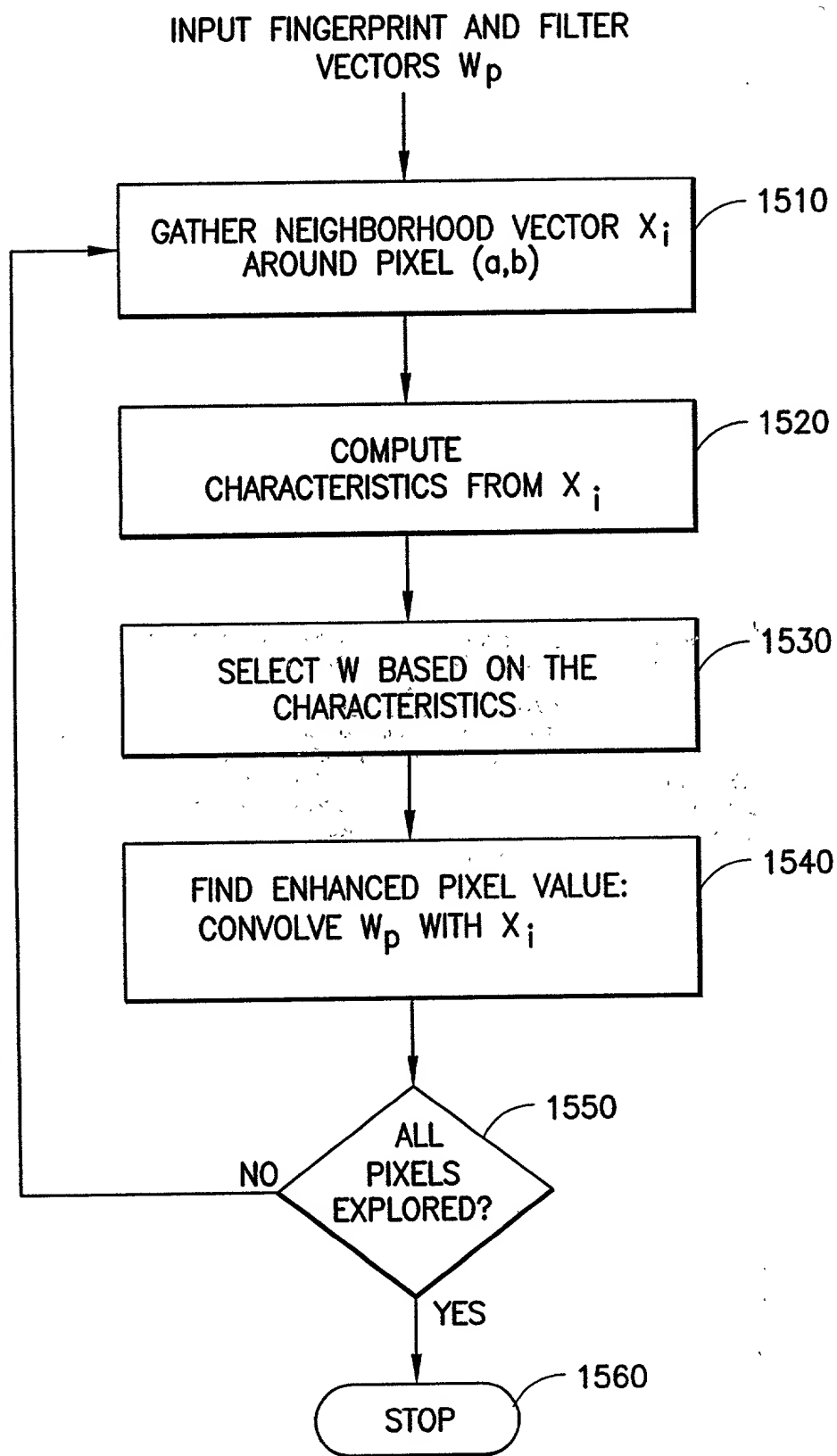


FIG.15

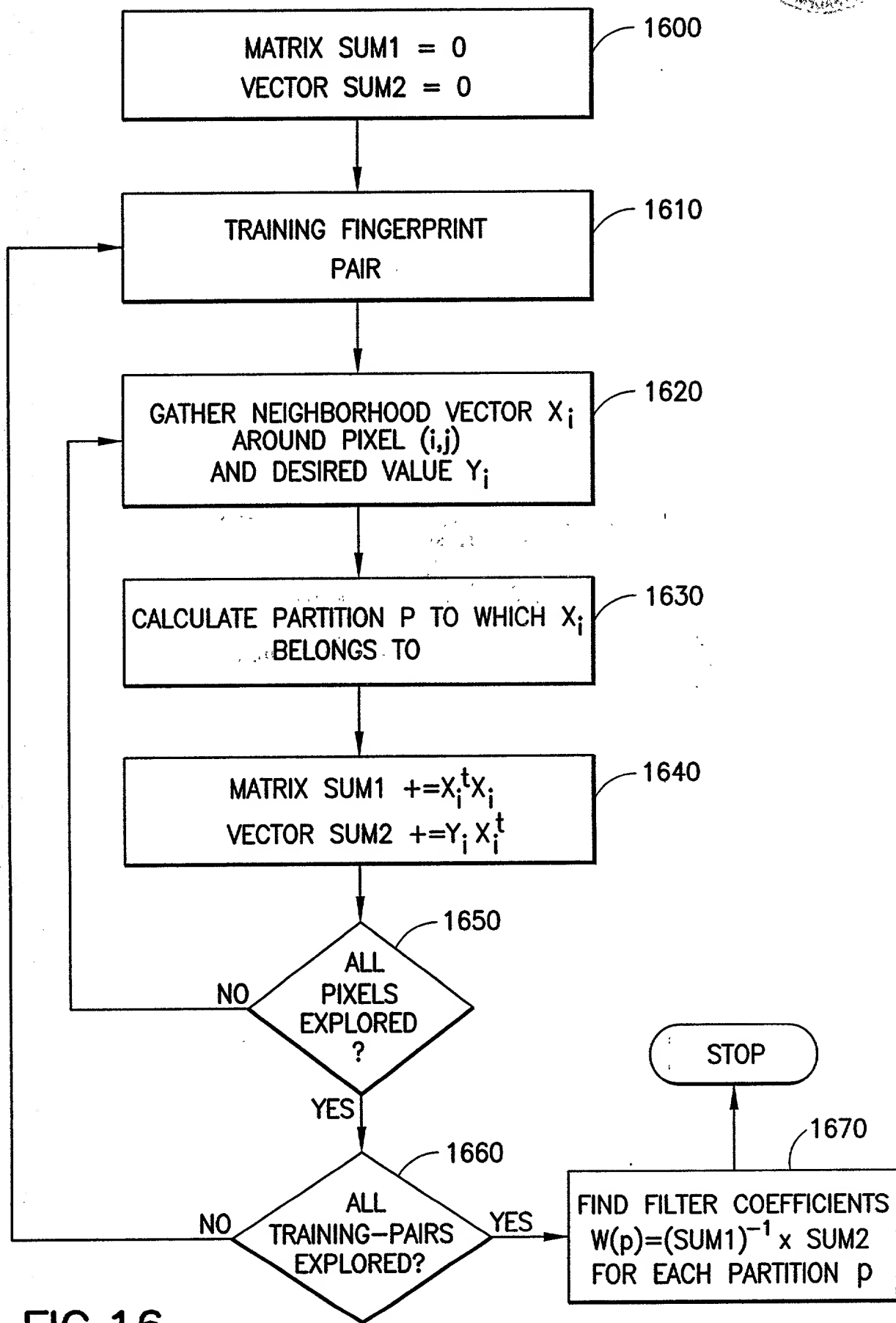


FIG.16



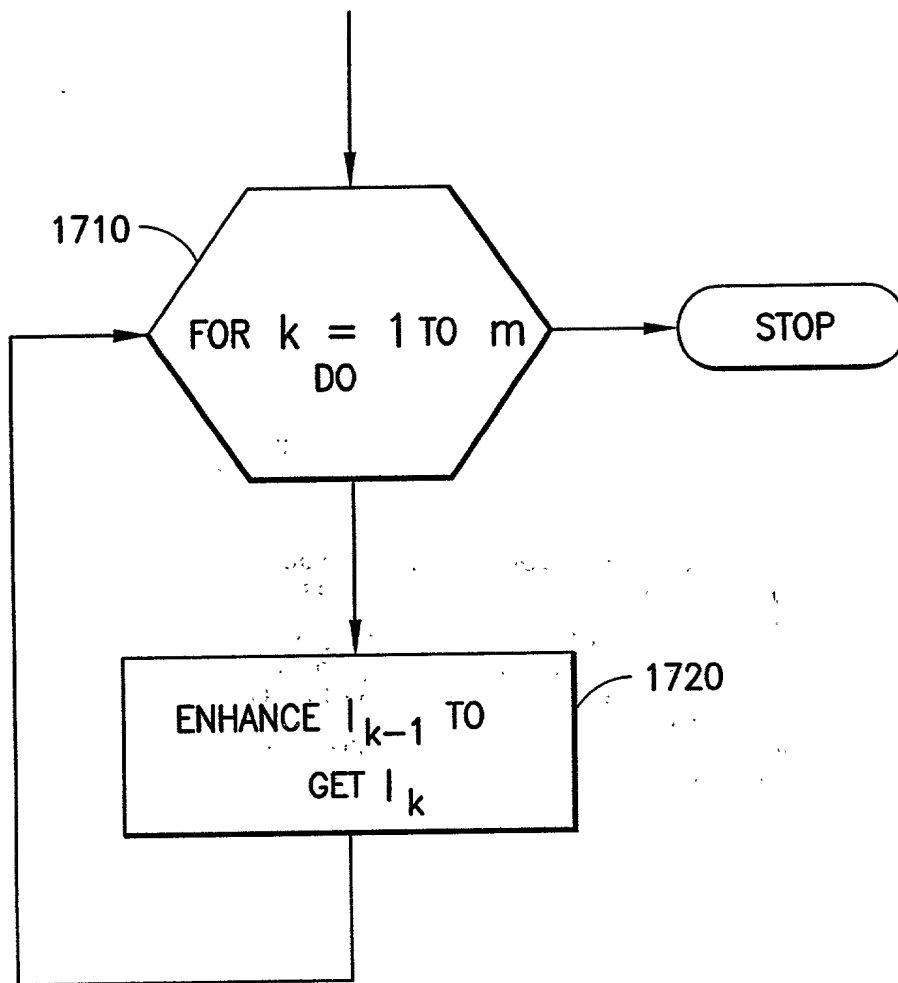


FIG.17